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nvidiateslat4

teslat4

Automated Executive Summary

t4 had the most wins, coming in first place for 65% of the tests.

Based on the geometric mean of all complete results, the fastest (t4) was 1.01x the speed of the slowest (nvidiateslat4-xeonplatinum8259).

The results with the greatest spread from best to worst included:

Blender (Blend File: BMW27 - Compute: CUDA) at 1.031x
Blender (Blend File: Pabellon Barcelona - Compute: CUDA) at 1.028x
Blender (Blend File: Pabellon Barcelona - Compute: CPU-Only) at 1.019x
Blender (Blend File: Pabellon Barcelona - Compute: OpenCL) at 1.013x
Blender (Blend File: Classroom - Compute: OpenCL) at 1.009x
Blender (Blend File: Barbershop - Compute: OpenCL) at 1.009x
Blender (Blend File: Fishy Cat - Compute: OpenCL) at 1.008x
Blender (Blend File: BMW27 - Compute: CPU-Only) at 1.007x
Blender (Blend File: Barbershop - Compute: NVIDIA OptiX) at 1.006x
Blender (Blend File: Barbershop - Compute: CUDA) at 1.004x.

Test Systems:

nvidiateslat4-xeonplatinum8259

t4

Processor: Intel Xeon Platinum 8259CL @ 2.50GHz (16 Cores / 32 Threads), Motherboard: Amazon EC2 (1.0 BIOS), Memory: 130GB, Disk: 838GB NVMe Amazon EC2 NVMe Disk + 1000GB NVMe Amazon Elastic B Disk, Graphics: NVIDIA Tesla T4 + NVIDIA Tesla T4 15GB, Network: AWS PV Device

OS: Microsoft Windows Server 2019 Datacenter Build 17763, Kernel: 10.0 (x86_64), Display Driver: 461.72 (27.21.14.6172), File-System: NTFS, Screen Resolution: 1920x1080

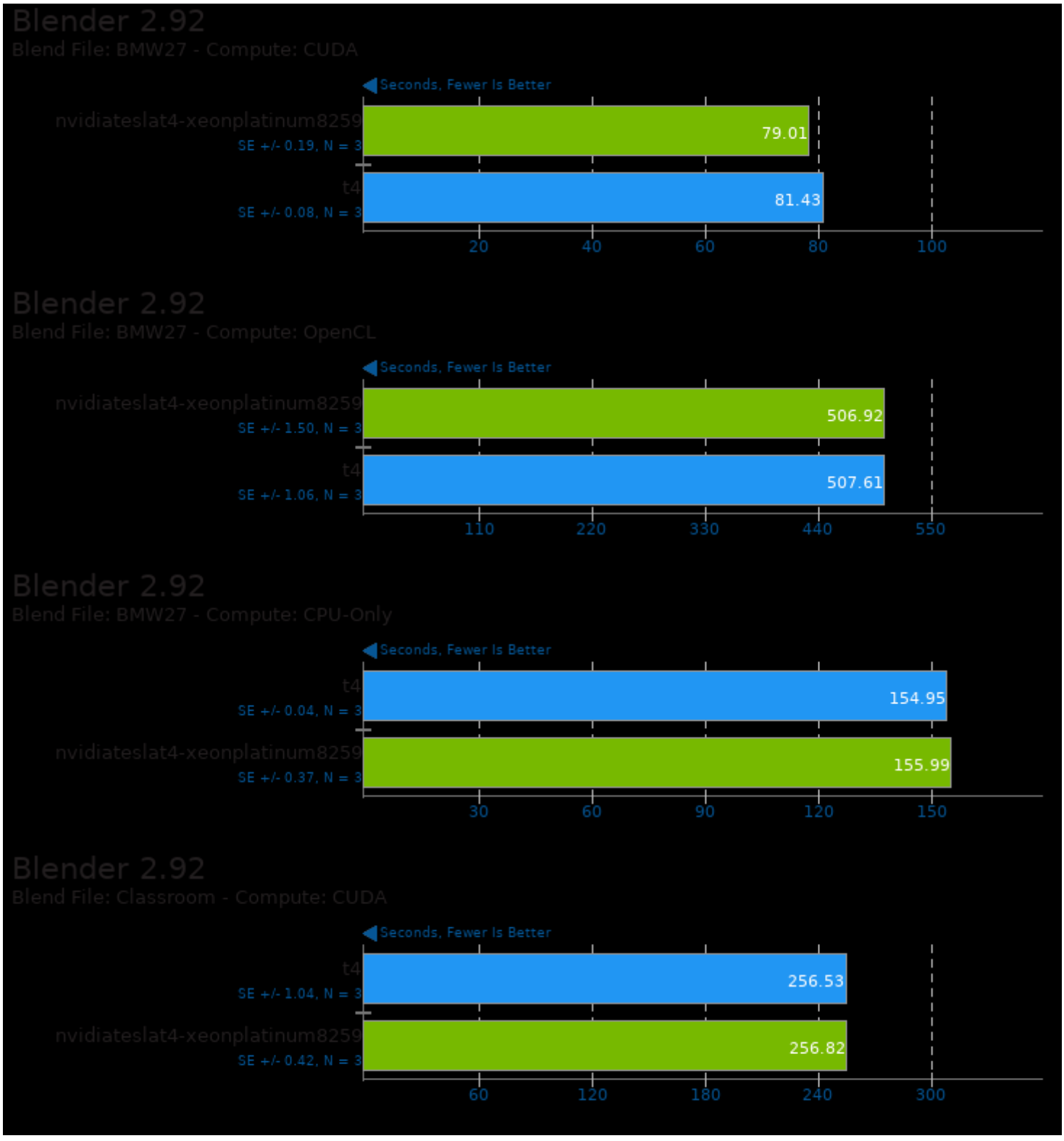
Security Notes: __user pointer sanitization: Disabled + KPTI Enabled: Yes + PTE Inversion: Yes

	nvidiateslat4-xeonplatinum8259	t4
Blender - BMW27 - CUDA (sec)	**79.01**	**81.43**
Normalized	100%	97.03%
Standard Deviation	0.4%	0.2%
Blender - BMW27 - OpenCL (sec)	**506.92**	**507.61**
Normalized	100%	99.86%
Standard Deviation	0.5%	0.4%
Blender - BMW27 - CPU-Only (sec)	**155.99**	**154.95**
Normalized	99.33%	100%
Standard Deviation	0.4%	0%
Blender - Classroom - CUDA (sec)	**256.82**	**256.53**
Normalized	99.89%	100%
Standard Deviation	0.3%	0.7%
Blender - Fishy Cat - CUDA (sec)	**147.44**	**147.60**
Normalized	100%	99.89%
Standard Deviation	0.1%	0.3%
Blender - Barbershop - CUDA (sec)	**1044**	**1040**
Normalized	99.64%	100%
Standard Deviation	0.1%	0.4%
Blender - Classroom - OpenCL (sec)	**492.41**	**497.02**
Normalized	100%	99.07%
Standard Deviation	0.1%	0.2%
Blender - Fishy Cat - OpenCL (sec)	**1356**	**1367**
Normalized	100%	99.18%
Standard Deviation	0.6%	1.4%
Blender - Barbershop - OpenCL (sec)	**770.83**	**777.87**
Normalized	100%	99.09%
Standard Deviation	0.9%	0.9%
Blender - BMW27 - NVIDIA OptiX (sec)	**48.31**	**42.12**
Normalized	87.19%	100%
Standard Deviation	50.3%	0.1%
Blender - Classroom - CPU-Only (sec)	**452.42**	**452.23**
Normalized	99.96%	100%

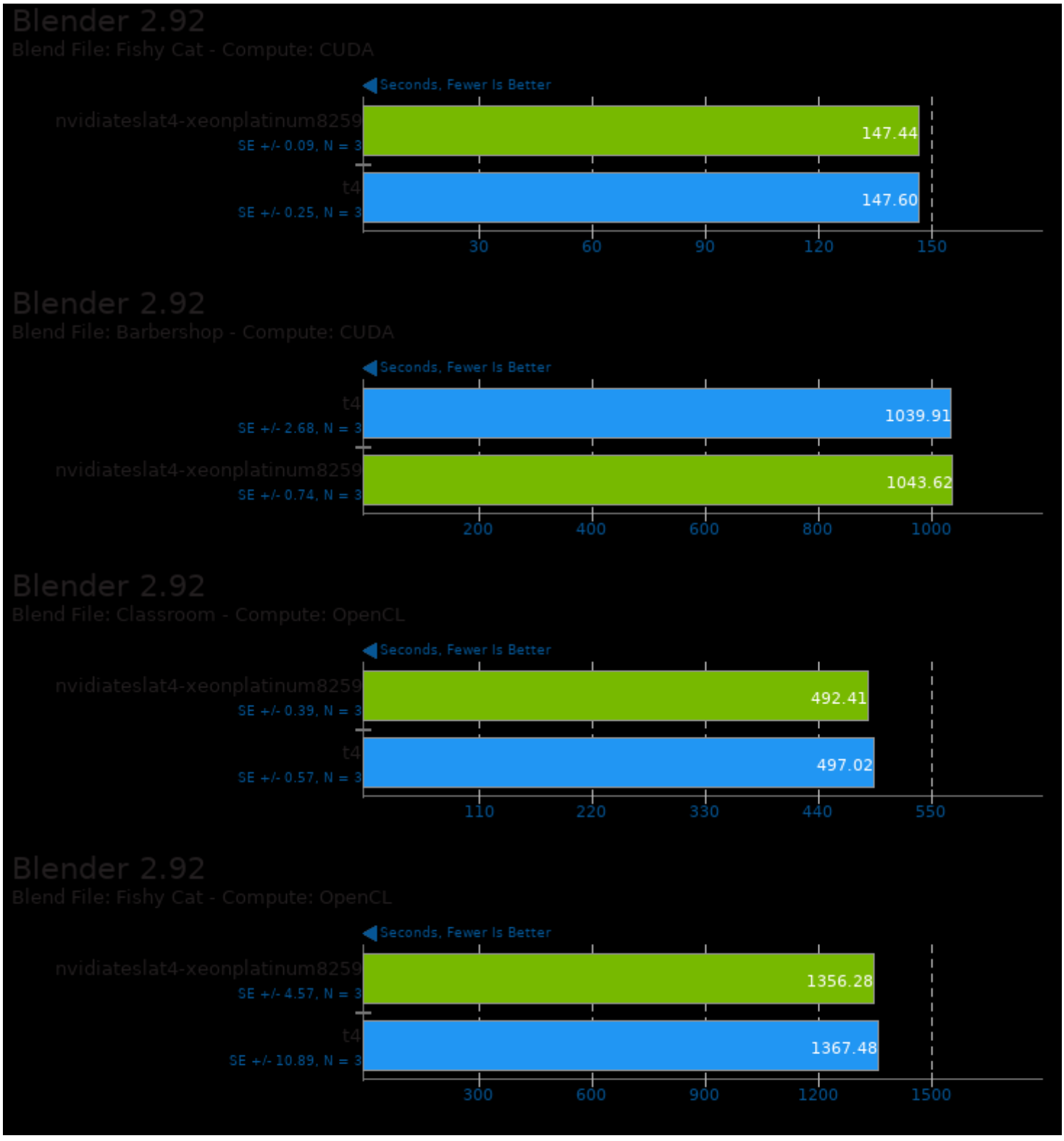
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Standard Deviation	0.1%	0.1%
Blender - Fishy Cat - CPU-Only (sec)	**208.21**	**208.15**
Normalized	99.97%	100%
Standard Deviation	0%	0.1%
Blender - Barbershop - CPU-Only (sec)	**622.58**	**622.60**
Normalized	100%	100%
Standard Deviation	0%	0.1%
Blender - Classroom - NVIDIA OptiX (sec)	**142.32**	**141.97**
Normalized	99.75%	100%
Standard Deviation	0.3%	0.8%
Blender - Fishy Cat - NVIDIA OptiX (sec)	**85.13**	**79.36**
Normalized	93.22%	100%
Standard Deviation	27.6%	1.1%
Blender - Barbershop - NVIDIA OptiX (sec)	**1484**	**1474**
Normalized	99.37%	100%
Standard Deviation	0.6%	0%
Blender - Pabellon Barcelona - CUDA (sec)	**514.28**	**500.37**
Normalized	97.3%	100%
Standard Deviation	0.4%	0.2%
Blender - Pabellon Barcelona - OpenCL (sec)	**1349**	**1331**
Normalized	98.71%	100%
Standard Deviation	2.4%	1.5%
Blender - Pabellon Barcelona - CPU-Only (sec)	**497.10**	**488.00**
Normalized	98.17%	100%
Standard Deviation	0%	0.1%
Blender - Pabellon Barcelona - NVIDIA OptiX (sec)	**212.74**	**212.04**
Normalized	99.67%	100%
Standard Deviation	0.5%	0.2%

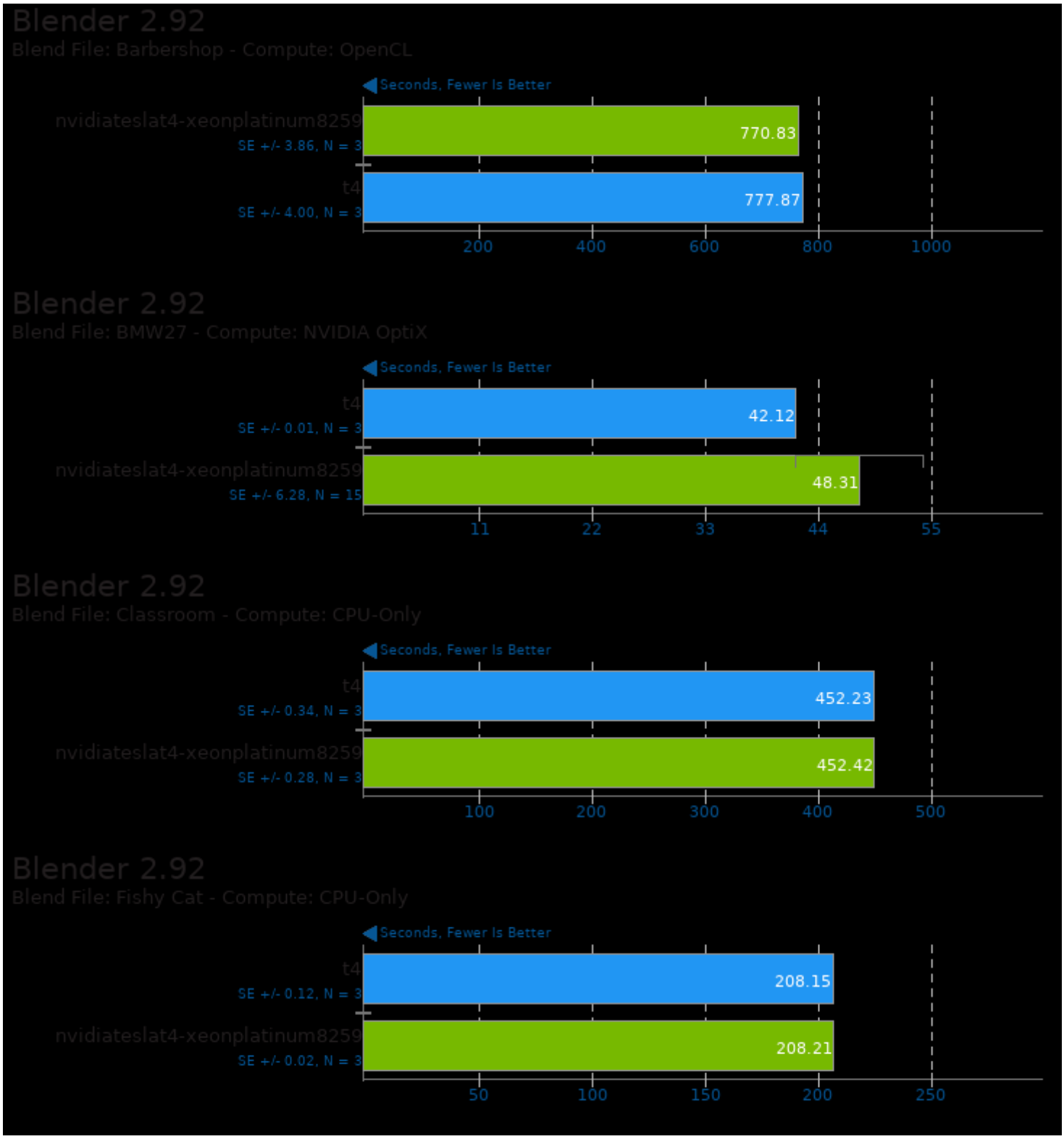
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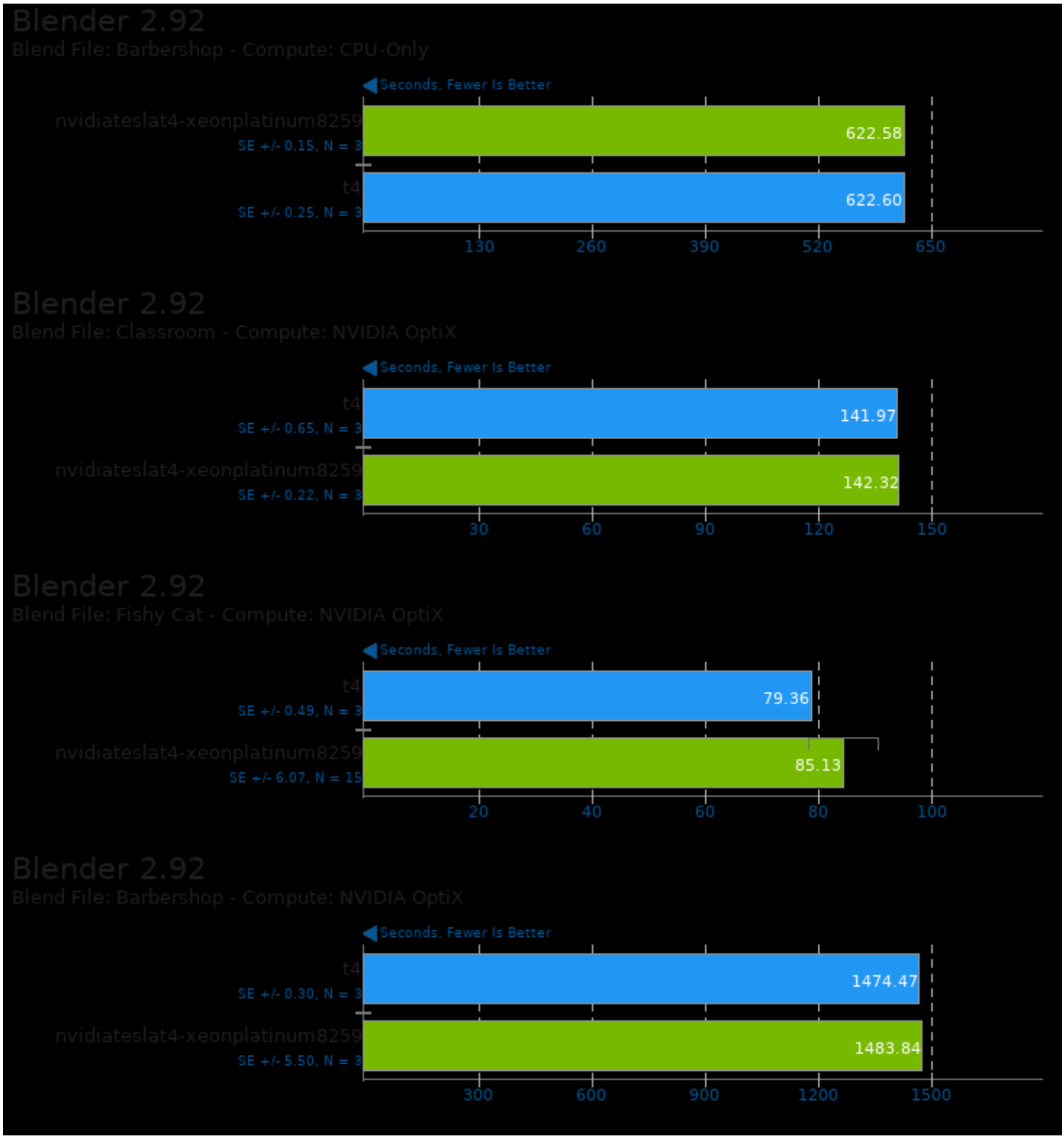
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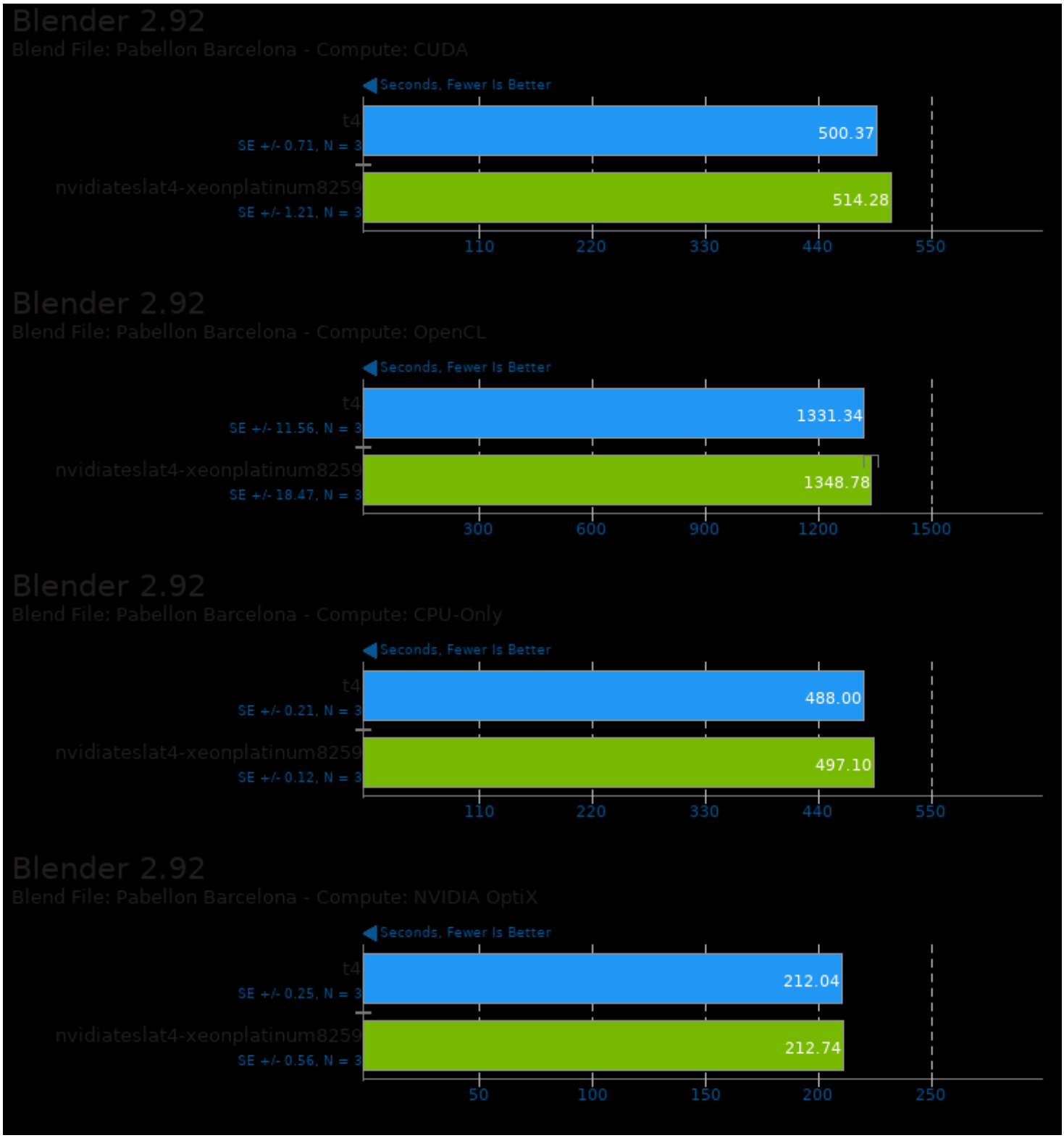
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